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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,862	04/09/2004	Guido Schmitz	245964US0	8700
22850	7590 06/21/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			TRAN, THAO T	
1940 DUKE S ALEXANDR	STREET IA, VA 22314	•	ART UNIT	PAPER NUMBER
	,	• =	1711	
			DATE MAILED: 06/21/200:	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	_ PSC		\sim			
	Application No.	Applicant(s)				
	10/820,862	SCHMITZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thao T. Tran	1711				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a r within the statutory minimum of thin rill apply and will expire SIX (6) MON cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	cation.			
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r. ·					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			• •			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in A ity documents have been ı (PCT Rule 17.2(a)).	opplication No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/8/04. S. Patent and Trademark Office	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

DETAILED ACTION

Claim Objections

1. Claim 4 is objected to because of the following informalities: line 2, "is is" should be changed to --is--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 6-7, and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Semegen et al. (US Pat. 2,827,098).

Semegen teaches a tube in fuel cell, the tube comprising an innermost layer 30 of polyester, a vapor barrier layer 31 of nylon or a linear polyamide (see col. 3, ln. 43-61). Although Semegen is silent with respect to the conductivity of the inner layer, since the reference teaches the inner layer comprising polyester, the invention of Semegen would inherently have the same properties such as conductivity.

4. Claims 1-7, 9-12, 15, 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Ries (US Pat. 5,798,048).

Ries teaches a plastic fuel filter having at least three layers, wherein the inner and outer layers are made of a plastic of component A, and embedded between them a layer of a plastic

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component B (see abstract; Fig. 1-2). Component A can be of polyester molding and component B can be of polyamide, polyolefin, or EVOH (see col. 3, ln. 45-49). Polyester used can be polyethylene terephthalate (see col. 5, ln. 49); polyamide can be PA10, PA11 and can have an impact modifier such as EPM or EPDM (see col. 3, ln. 51-55; col. 4, ln. 39-41); polyolefin can be high, intermediate, or low density linear polyethylene and further contains ethylene vinyl alcohol containing up to about 40% weight of ethylene (see col. 4, ln. 61-67; col. 5, ln. 1). The inner and outer layers can further contain additives such as electrically conductive additives (see col. 6, ln. 65-67).

Although Ries is silent with respect to the conductivity of the inner layer, since the reference teaches the inner layer comprising polyester, the invention of Ries would inherently have the same properties such as conductivity.

5. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Boer et al. (US Pat. 6,355,358).

Boer teaches a multilayer composite, comprising layer I of polyamide molding composition and layer II of polyester molding composition; and an adhesion promoter layer in between layers I and II (see abstract). The polyamide molding composition contains PA 10 or PA 11; an impact modifier, such as ethylene propylene or ethylene propylene diene copolymers; and additives, such as plasticizers or electroconductive fillers (see col. 6, ln. 1-8, 39-45, 55-58). The polyester composition includes polyethylene terephthalate, and up to 40% by eight of other thermoplastics, such as impact modifying rubbers and electroconductive fillers (see col. 7, ln. 25-45). The adhesion promoter composition comprises polyamide, polyester, and 40% parts by

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weight of additives such as impact modifying rubber, such as EPM functionalized with 1% maleic anhydride and other additives (see col. 8, ln. 7-25; col. 10, ln. 65-67; col. 12, ln. 4-5).

Although Boer is silent with respect to the conductivity of the inner layer, since the reference teaches the inner layer comprising polyester, the invention of Boer would inherently have the same properties such as conductivity.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Semegen, Ries or Boer as applied to claims 1 and 12 above, and further in view of Kito et al. (US Pat. 6,491,994).

Semegen, Ries, and Boer are as set forth in claims 1 and 12 above and incorporated herein.

None of the references of Semegen, Ries, and Boer teaches a specific plasticizer or its amount as recited in the instant claims.

Kito teaches a polyamide composition, comprising a plasticizer, such as butyl benzenesulfonamide, in an amount of 0-15% (see col. 2, ln. 35-44).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have employed the plasticizer, as taught by Kito, in the polyamide

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composition of Semegen, Ries, or Boer, for the purpose of enhancing flexibility of the composition without bleeding of the layer.

8. Claims 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Semegen, Ries, or Boer as applied to claim 1 above, and further in view of Oishi et al. (US Pat. 5,849,376). Semegen, Ries, and Boer are as set forth in claim 1 above and incorporated herein.

None of the references of Semegen, Ries, and Boer teaches a specific amount of ethylene or the amount of acetate being hydrolyzed in ethylene vinyl alcohol as recited in the instant claims.

Oishi teaches a laminate comprising a layer of ethylene vinyl alcohol laminated to a polyester film, the EVOH containing 20-60% mole of ethylene and the degree of hydrolysis is at least 85% (see col. 2, ln. 50-54).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have employed the EVOH as taught by Oishi, in the laminate of Semegen, Ries, or Boer, because Oishi teaches that this EVOH provides optimal combination of melt moldability and bas barrier properties.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The examiner can normally be reached on Monday-Friday, from 9:00 a.m. - 5:30 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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June 16, 2005

Theo Tran

THAO T. TRAN
PATENT EXAMINER